

Aminopeptidase P1 Protein, Human (His-SUMO)

Cat. No.:	HY-P700260
Synonyms:	Aminoacylproline aminopeptidase; aminopeptidase P, cytosolic; APP1; Cytosolic aminopeptidase P; RP11 451M19.1; sAmp; Soluble aminopeptidase P; soluble; X Pro aminopeptidase 1; X prolyl aminopeptidase (aminopeptidase P) 1; X prolyl aminopeptidase (Aminopeptidase P) 1 soluble; X prolyl aminopeptidase 1; X prolyl aminopeptidase 1 soluble; X-Pro aminopeptidase 1; X-prolyl aminopeptidase 1; Xaa Pro aminopeptidase 1; Xaa-Pro aminopeptidase 1; XPNPEP 1; XPNPEP; xpnpep1; XPNPEPL; XPNPEPL1; XPP1_HUMAN
Species:	Human
Source:	E. coli
Accession:	Q9NQW7 (P2-Q623)
Gene ID:	7511
Molecular Weight:	Approximately 85.8 kDa

PROPERTIES

AA Sequence

PPKVTSELLR
QLRQAMRNSE
YVTEPIQAYI
IPSGDAHQSE
YIAPCDCRRA
FVSGFDGSAG
TAIITEEHAA
MWT DGRYFLQ
AAKQMDSNWT
LMKMGLKDTP
TQEDWLVSVL
PEGSRVGVDP
LIIPTDYWKK
MAKVLRSAGH
HLIPVKENLV
DKIWTD RPER
PCKPLLTGL
DYTGISWKDK
VADLRLKMAE
RNVMMWFVTA
LDEIAWLFNL
RGS DVEHNPV
FFSYAIIIGLE
TIMLFIDGDR
IDAPSVKEHL
LLDLGLEAEY
RIQVHPYKSI
LSELKALCAD
LSPREKVVVS
DKASYAVSET
IPKDHRCMP
YTPICIAKAV
KNSAESEGM R
RAHIKDAVAL
CELFNWLEKE
VPKGGVTEIS
AADKAE EFR R
QQADFVDLSF
PTISSSTGPN G
AIIHYAPVPE
TNRTL SLDEV
YLIDSGAQYK
DGT TDVTRTM
HFGTPTAYEK
ECFTYVLKGH
IAVSAAVFPT
GTKGHLLDSF
ARSALWDSGL
DY LHGTGHGV
GSFLNVHEGP
CGISYKTFSD

E P L E A G M I V T
D E P G Y Y E D G A
F G I R I E N V V L
V V P V K T K Y N F
N N R G S L T F E P
L T L V P I Q T K M
I D V D S L T D K E
C D W L N N Y H L T
C R D V I G K E L Q
K Q G R Q E A L E W
L I R E T Q P I S K
Q H

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of Tris-based buffer, 50% glycerol.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

Amino peptidase P1 Protein, a metalloaminopeptidase, plays a crucial role in peptide metabolism by catalyzing the removal of penultimate prolyl residues from the N-termini of peptides, including substrates such as Arg-Pro-Pro. This enzymatic activity contributes significantly to the degradation of specific peptides, exemplified by its role in the processing of bradykinin. The selective cleavage of prolyl residues by Amino peptidase P1 underscores its importance in modulating peptide structures and functions within biological systems.

Caution: Product has not been fully validated for medical applications. For research use only.

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